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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,805	12/29/2003	Siva G. Narendra	P17329	1852
7590 03/01/2006		EXAMINER		
Buckley, Maschoff & Talwalkar LLC			TRAN, THIEN F	
Five Elm Street			ADTIBUT	DARED MUMBER
New Canaan, CT 06840			ART UNIT	PAPER NUMBER
			2811	2811
			DATE MAILED: 03/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/747,805	NARENDRA ET AL.
		Examiner	Art Unit
		Thien F. Tran	2811
Period fo	The MAILING DATE of this communication app r Renty	pears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DOTAINS IN THE MAILING DOTAINS OF T	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on 19 D This action is FINAL . 2b) This Since this application is in condition for allowa closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)□	Claim(s) <u>5-8,14,20 and 25-36</u> is/are pending in 4a) Of the above claim(s) is/are withdray Claim(s) <u>14,20 and 25-36</u> is/are allowed. Claim(s) <u>5-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	
Applicati	on Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	cepted or b) objected to by the for drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority ι	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureause the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notice	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Smits et al. (US 5,287,247).

Smits et al. disclose an apparatus (Figures 4A, 4C, 4D, 5B) comprising an integrated circuit (IC) die (422); a central button (430) characterized as comprising a stack of at least three metal layers of a same material (a top layer, a middle layer and a bottom layer) on a back surface of the IC die; a heat spreader (424) conductively coupled to the metal layer; and a bias signal source coupled to the heat spreader to supply a bias signal to the IC die via the metal layer. Claimed structure does not require the three metal layers formed of different materials. Therefore, these three metal layers could be formed of same material that together they form an integral metal part on a back surface of the IC die. Thus, a stack of three metal layers of the same material is not patentable distinguished from the central button (430) of Smits et al. Also, it has been held that constructing a formerly integral structure in various elements involve only routine skill in the art. Nerwin v. Erlichman, 168 USPQ 177, 179.

Regarding claim 6, a wire (442) is coupled to the heat spreader to provide the bias signal from the signal source.

Regarding claim 7, a package substrate (motherboard 402) on which the IC die is mounted, the package substrate (motherboard) inherently including a conductive path to provide the bias signal to the heat spreader (424).

Regarding claim 8, the IC die includes a microprocessor (CPU 104).

Allowable Subject Matter

Claims 14, 20 and 25-36 are allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F. Tran whose telephone number is (571) 272-

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1665. The examiner can normally be reached on 8:30AM - 5:00PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tt February 23, 2006

THIENTRAN
PRIMARY EXAMINED

When Mr.